





- What is the Forestry Challenge?
- 2016 Summary
- Significant Upgrades
- Outlook for 2017 and Beyond



What is the Forestry Challenge?

- The Forestry Challenge is an academic competition for high school students in technical forestry and current forestry topics.
- Participants spend four days in the forest learning about the ecology and management of the forested landscapes that provide communities with water, recreational opportunities, forest products, and wildlife habitat.
- Youth benefit by better understanding the relationship of the forested environment to their community, by exposure to natural resource management as a potential career option, and by undertaking a rigorous critical thinking exercise.





Goal #1: Teach students the basic principles of forestry, connecting classroom math and science to hands-on experiences with real-world applications, enabling them to make recommendations about natural resource management.

Growth Rates Bill Snyder



Measuring Coulter Cones



Fuel Quantification Using Brown's Transects





Goal #2: Give students the opportunity to explore careers by interacting with natural resource professionals including foresters, hydrologists, soil scientists, wildlife biologists, and fire scientists.

Paula Randler
US Forest Service



Patrick McDaniel CalFire



Julie Dufresne Big Creek Lumber Co.





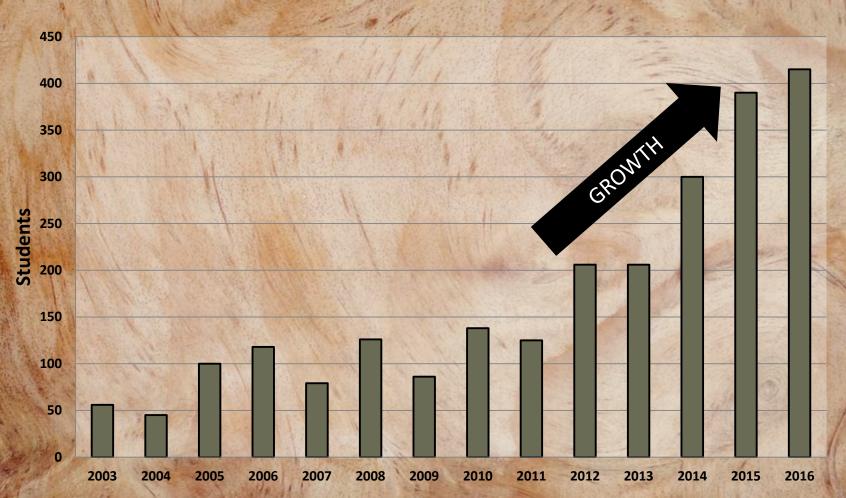


Goal #3: Provide an opportunity for a diverse student population to experience outdoor recreation and develop an appreciation for the forest and its benefits to all.



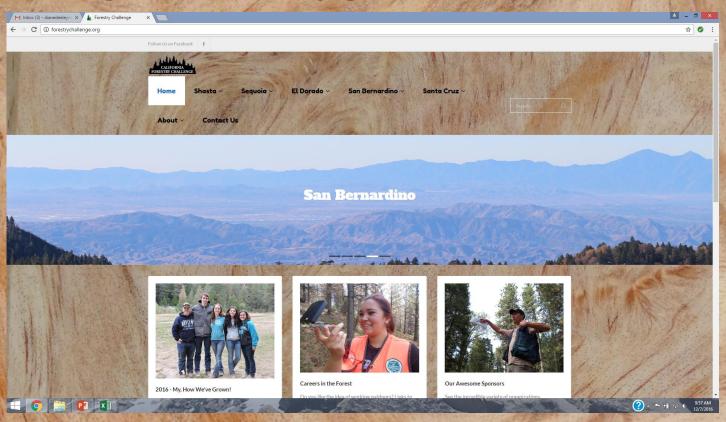


2016 participation was 415 students and 84 teachers from 56 schools, as well as 124 volunteers donating over 1,600 hours. 54% of 2016 students were female.





Significant Upgrade - Website







Daring.	
STUDENT LIFE AT FORESTRY CHALLENGE WHAT TO BRING	
DOWNLOAD RELEASE FORM FOR STUDENTS UNDER 18 DOWNLOAD RELEASE FORM	FOR ADULT STUDENTS
El Dorado Forestry Challenge Learning Objectiv	ves
"FINAL"	
Ecology, Botany, and Plant Identification	
Understand the fundamental life-processes of plants including photosynthesis and transpiration.	
2. Know the basic parts of a tree and their functions.	
3. Understand basic ecological concepts including food webs, succession, competition, adaptation, and sur	mbiosis.
4 Be familiar with the four most common furest plant communities in Culturnia, and know their approxim	sate ranges.
5. Identify with common names the following tree species without a key, and know their approximate rang	sea in California:
Ponderusa Pine	
Sugar Fire	
Income Ceder	
WhiteFire	
Douglas Fir	
California Black Clair	
6. Identify specific species of trees, shrubs, and herbaceous plants through the use of a dichutanous identify	Pication key, Understand leaf
murphilips.	
Timber Cruising, Forest Management, and Forest Products	
7. Know how to pure a chain.	
8. Knowhow to use the following forestry tools: Biltmore Sick (diameter and height), circonster, diameter	e tape, orgin graps, company, and
increases bores.	
9. Interpret values and site index tables using raw data.	
10. Determine forced species composition using a 1/10 scre-square plot.	
11. Intercent mans, including but not limbed to transdate transfer that properties, properties, distances including disperties.	coal begines and town title

Significant Upgrade – Foresters and Schools





RPF Steve Cannon with Elk Grove High School

Teachers requested foresters when they pre-registered in the spring. We were able to match 46 schools with a local forester.

Significant Upgrade – Golf Cart







Significant Upgrade – Bin System





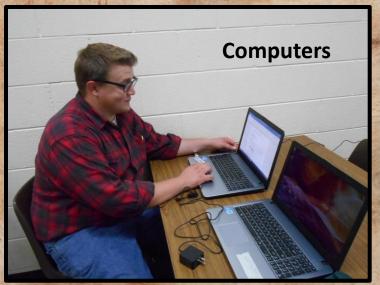


Significant Upgrade – Electronics



Projectors





Significant Upgrade – Staff and Staff Vests



Rika Piercy
Emergency Care Coordinator



Lori and Deseray - Office Staff



Staff Vests

Outlook for 2017 and Beyond









Outlook for 2017 and Beyond













Thank You!





